

A. Authors, Institutions, Overview

1. Title - Enter a title, beginning with a descriptive reference **to the specimen material** or **other characteristics** specific to this **data** record, e.g. "Polyvinyl **Acetate Degradation** During XPS Measurements. " **Please refrain** from using **titles** beginning with the name of the **spectroscopy**, e.g. **avoid titles** like 'AES Study of. . .'"

MgO (100) by XPS

2. Authors, Institutions, and Locations (**city, state, province, or country**) - list authors and **affiliations**, in order of **appearance** in SSS.

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Author	Institution	Location
Author	Institution	Location
Author	Institution	Location
Author		Location

3. Abstract — Summarize and **include** key **information about the** specimens and spectra, such as specimen **material**, **measurement** procedures, and significance of **the** research. **The abstract** will be reprinted **verbatim**.

XPS measurements of the core levels, including energy losses, and the valence band of a MgO (100) crystal are presented.

- ① | 4. Corresponding Author – Provide detailed information for the author chosen as principal contact for technical questions or questions from SSS editors.

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- ① | 5. Technique and # of Spectra Submitted – Check the technique used and enter the number of spectra being submitted, including o// calibration spectra. Complete a copy of Section F for each spectrum.

☒ XPS ☐ AES ----- 10

- ① | 6. # of Calibration Spectra in Data Record

0

- ① | 7. # of Spectra for SSS publication – Enter the number of spectra for which hard-copy publication is being requested. For accepted data records comprising large numbers of spectra, all of the spectra will be entered into the AVS electronic database, but it may only be feasible to publish a representative number of spectra in Surface Science Spectra. An opportunity to identify specific spectra for publication is given in Field 2, Section F.

2

- ⑥ | 8. publish Auger Derivative Spectra – Auger spectra submitted may be displayed in Surface Science Spectra as N(E) data alone or as superimposed N(E) and derivative forms. The default display mode will include both forms. Check your preference.

☐ Display both forms ☐ Display N(E) only

- ① | 9. Key Words - List selected phrases and words to help readers search for information in the database, e.g. Auger electron spectroscopy, oxidation, corrosion, surface segregation. Be selective, but thorough.

Magnesium compounds, oxides, x-ray photoelectron spectroscopy,

0110. Spectra Category - Check the suggested category of the data record: Technical, Comparison, or Reference (see the overview of instructions for definitions). The editors may suggest an alternate category, based on the recommendations of referees.

☐ Technical

☒ Comparison

☐ Reference

- ③ | 11. References — List citations to articles related to the data record using the style of J. Vac. Sci. Technol.

1. R. W.G. Wyckoff, Crystal Structures, 2nd. ed. (Wiley New York 1963),
Vol. 1, p. 85.

- ⑤ | 12. Acknowledgements

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Monday 2/15/1993

14:43:10

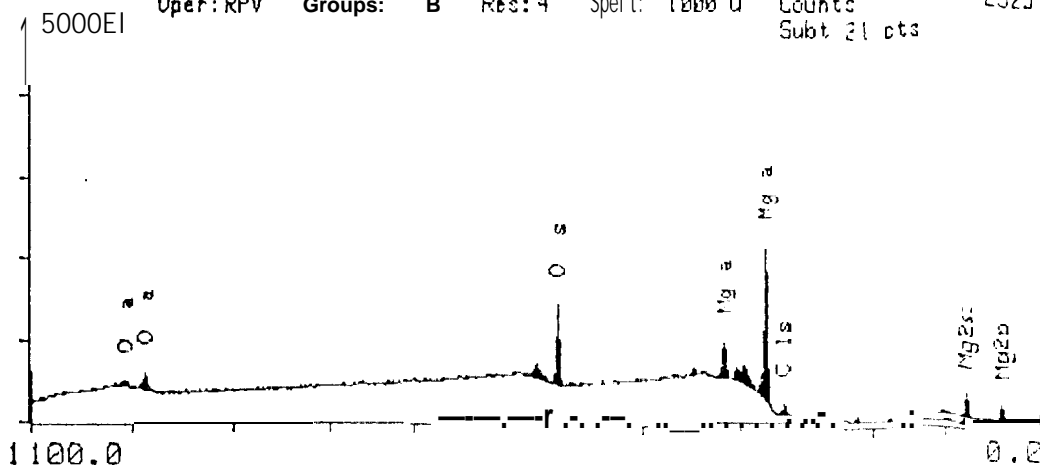
MgO (100) 30s 1:10 HCl:EtOH

Oper:RPV Groups: B Res:4 Spelt: 1000 u

(1) RV071891_2

of Scans 2
Flood Gun 2.0
eV 1098.93
Counts 2525
Subt 21 pts

Spectrum #1
Survey



SURFACE COMPOSITION TABLE

RV071891_2

MgO (100) 30s 1:10 HCl:EtOH

Elem	Corr'd BE	Flood Gun	Delta BE	Sens Factor	# of Scans	eV/group	Area	Relative Area	Atom %
Mg2s	88.86	2.0	.14	.639	2	137.5	9885	830835	43.26
O 1s	531.02	2.0	.98	2.494	2	137.5	36249	180606	40.65
Cl2p	198.83	2.0	2.17	2.395	2	137.5	1659	36747	1.91
C 1s	285.85	2.0	-1.25	1.000	2	137.5	5069	272270	14.18